

Title (en)

A hydraulic actuating unit, in particular for controlling a valve of an internal-combustion engine.

Title (de)

Hydraulische Antriebsvorrichtung, insbesondere für Ventilsteuerung in einer Brennkraftmaschine.

Title (fr)

Unité de commande hydraulique, en particulier pour le contrôle de soupape de moteur à combustion interne.

Publication

EP 0600381 A1 19940608 (EN)

Application

EP 93119034 A 19931125

Priority

IT TO920972 A 19921130

Abstract (en)

A hydraulic actuating unit comprising a control member (11) formed by a first tubular member (19) defining a pair of cavities (38, 48) accommodating slidably respectively a second member (14) and a third member (43); the third member (43) incorporates a non-return valve communicating with a chamber (34), formed between the first member (19) and the second member (14), and with a supply duct (60) for hydraulic fluid, and is movable under the pressure of the hydraulic fluid and against the action of resilient means (44) from a rest position, in which it connects said chamber (34) with an outlet opening (37, 39) of the first member (19), into a second operating position in which said chamber (34) is isolated from the outlet opening (37, 39). <IMAGE>

IPC 1-7

F01L 13/00; **F01L 1/24**

IPC 8 full level

F01L 1/24 (2006.01); **F01L 13/00** (2006.01)

CPC (source: EP)

F01L 1/2405 (2013.01); **F01L 13/0005** (2013.01); **F01L 13/0031** (2013.01)

Citation (search report)

- [A] US 4337739 A 19820706 - JORDAN EDGAR R
- [A] US 4050435 A 19770927 - FULLER JR HAROLD L, et al
- [A] DE 4000531 A1 19900613 - SCHMIDT ROLAND [DE]

Cited by

EP1612376A1; US7644693B2; WO2006003514A1

Designated contracting state (EPC)

CH DE ES FR GB IT LI SE

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EP 0600381 A1 19940608; **EP 0600381 B1 19970326**; DE 69309229 D1 19970430; DE 69309229 T2 19970731; ES 2100428 T3 19970616; IT 1257926 B 19960219; IT TO920972 A0 19921130; IT TO920972 A1 19940530

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